

# Lloyd's Register of Shipping

## SURVEYS FOR FREEBOARD - STEAMERS

(Under the Provisions of the U. S. A. Load Line Act of March 2, 1929)

New York Office Index No. ...  
Port of Survey... *New York*  
Date of Survey... *30th April*  
Name of Surveyor... *James D.*

S.S. M.S.	Ship's Name. <i>"Ligonier"</i>	Port of Registry and Nationality. <i>Port Arthur Japan</i>	Official Number. <i>141861</i>	Gross Tonnage. <i>3737</i>	Date of Build. <i>1903-5</i>	Particulars of Classification. <i>+ 100 ft. Spar deck. Transverse for mchly. aft. Carrying Petroleum in bulk</i>
Number in Register Book... <i>76832</i>		USA.		Builder... <i>New York A.B. Co.</i>		Hull No. ... <i>9</i>
Owner... <i>Gulf Refining Co. Ltd.</i>						
Moulded dimensions <i>360</i> × <i>46.25</i> × <i>27.33</i> (85% = <i>23.23</i> )						
Moulded displacement at a moulded draught of 85 per cent. of moulded depth... <i>8,800 Tons</i>						
Coefficient of fineness for use with tables... <i>796</i>						

DEPTH FOR FREEBOARD.		CORRECTION FOR DEPTH.		CAMBER	
Moulded depth	<i>27.33</i>	(a) When $D$ is greater than $\frac{L}{15}$		Standard $\frac{46.25 \times 12}{50} =$	<i>11.1</i>
Stringer plate	<i>(.60)</i>	$(D - \frac{L}{15}) \times R =$	$(27.33 - 24) \times 2.769 = 9.36$	Ship ...	<i>11.5</i>
Sheathing in wells	$T(\frac{L-S}{L}) =$	(b) When $D$ is less than $\frac{L}{15}$ (if allowed)		Difference	<i>4</i>
Depth $D =$	<i>27.38</i>	$(\frac{L}{15} - D) \times R =$		Restricted to	
		If restricted by height of superstructures		Allowance = $\frac{\text{Difference}}{4} \times (1 - \frac{S}{L}) =$	<i>4</i>

SUPERSTRUCTURES.					
	Mean Covered Length S.	Effective Length S <sub>e</sub> (Uncorrected for Height)	Height.	Correction for Height.	Effective Length.
Poop enclosed	<i>34.00</i>	<i>34.00</i>	<i>7.5</i>	<i>✓</i>	<i>34.00</i>
overhang					
R.O.D. enclosed					
overhang					
Bridge enclosed	<i>28.00</i>	<i>28.00</i>	<i>7.5</i>	<i>✓</i>	<i>28.00</i>
overhang aft					
overhang forward					
File enclosed	<i>43.00</i>	<i>21.50</i>	<i>7.5</i>	<i>✓</i>	<i>21.50</i>
overhang					
Trunks forward			<i>2.0</i>	<i>2/7.10</i>	<i>11.57</i>
aft			<i>2.0</i>	<i>2/7.10</i>	<i>10.96</i>
Tonnage opening					<i>83.50</i>
Total	<i>105.00</i>	<i>83.50</i>			<i>106.03</i>
Length of ship (L)	<i>360</i>	<i>360</i>			<i>360</i>
% Covered	<i>29.17%</i>	<i>23.19%</i>			<i>29.44%</i>
Corresponding %, corrected for absence of forecastle if required	<i>A = 29.17%</i>	<i>B = 20.608%</i>	<i>14.71</i>	Correction for Bridge less than 2 L if required	<i>12.8</i>
Allowance	<i>39.33</i>	<i>20.61</i>	<i>12.8</i>		<i>5.05</i>

SHEER.						
Station.	Actual Sheer.	Standard Sheer.	Allowed Sheer.	S. M.	Products.	
A.P. 1	<i>31.20</i>	<i>46.00</i>	<i>31.20</i>	<i>1</i>	<i>31.20</i>	
2	<i>5.20</i>	<i>20.44</i>	<i>5.20</i>	<i>4</i>	<i>20.80</i>	
3		<i>5.11</i>		<i>2</i>		
4				<i>4</i>		
5		<i>10.22</i>		<i>2</i>		
6	<i>14.80</i>	<i>48.88</i>	<i>14.80</i>	<i>4</i>	<i>59.20</i>	
F.P. 7	<i>73.10</i>	<i>92.00</i>	<i>73.10</i>	<i>1</i>	<i>73.10</i>	
Mean effective sheer					<i>184.30</i>	
Standard sheer .05 L + 5 =					<i>23.00</i>	
Difference (Df)					<i>12.76</i>	
Allowance = $Df \times (.75 - \frac{S}{2L}) =$					<i>7.66</i>	
If limited on account of amidship superstructure					<i>✓</i>	
If limited on account of excess sheer (1 1/2 in. per 100 ft.)					<i>✓</i>	

DRAFTS.		F. W. ALLOWANCE	TABULAR FREEBOARD	(corrected for flush deck if required)
Moulded Depth $D =$	<i>27' 4"</i>	Displacement = <i>8295</i>	Corrected for Coefficient	<i>53.50</i>
Stringer Plate	<i>1/2"</i>	Tons per inch = <i>34.21</i>		<i>58.07</i>
Freeboard	<i>5' 4 1/2"</i>		Correction for Depth	
Moulded draught	<i>21' 0 1/2"</i>		" Superstructures	<i>9.36</i>
Addition for keel below base line	<i>2'</i>		" Sheer	<i>7.66</i>
Extreme draught	<i>21' 1 1/2"</i>		" Camber	<i>5.03</i>
			" Thickness of deck	<i>11.9</i>
			" Scantlings, etc.	<i>17.02</i>
				<i>8.19</i>
				<i>+ 8.83</i>
				Summer Freeboard = <i>66.90</i>

SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line.		Deck:—
Tropical Fresh Water Line (above center of Disc)	<i>4' 7 1/2"</i>	Tropical Fresh Water Freeboard
Fresh Water Line	<i>5' 1"</i>	Fresh Water
Tropical Line	<i>5' 1 1/2"</i>	Tropical
Winter Line	<i>6' 0"</i>	Winter
Winter North Atlantic Line	<i>6' 4"</i>	Winter North Atlantic



Note:—The Rules referred to below are the Load Line Regulations of the United States Department of Commerce.  
(These should be consulted when completing the report.)

coal.

Is the poop ~~enclosed~~ deck connected with the bridge? *No*  
Has the poop ~~enclosed~~ deck an efficient steel bulkhead at the fore end? *Yes*  
Give particulars of the means of closing the openings in this bulkhead (Rules 43 and 44) *11 3/4" steel doors*  
Has the bridge an efficient steel bulkhead at the fore end? *Yes*  
Give particulars of the means of closing the openings in this bulkhead *11 3/4" steel doors*  
Has the bridge an efficient steel bulkhead at the after end? *Yes*  
Give particulars of the means of closing the openings in this bulkhead *11 3/4" steel doors*  
Has the forecastle an efficient steel bulkhead at the after end? *Open*  
Give particulars of the means of closing the openings in this bulkhead *Open*  
Are the engine and boiler openings covered by a ~~bridge, poop, raised quarter-deck, or enclosed by a~~ strong steel deckhouse? *Yes*  
If these openings are not so protected, are the exposed parts of the casing efficiently constructed? *Yes*  
Give particulars of plating, scantlings and spacing of stiffeners *(What the 1 x 3 x 1/4" BA, aft 24" L&L)*  
Are Rules Nos. 19, 20, 21 and 22 complied with (where applicable)?

Particulars of bulkheads of erections:

	Poop or Raised Quarter-Deck Bulkhead	Bridge front bulkhead	Bridge after bulkhead	Forecastle bulkhead
Thickness of bulkhead plating	<i>7/16"</i>	<i>3/8"</i>	<i>3/8"</i>	
Thickness of stiffeners	<i>7 x 3 x 7/16" BA</i>	<i>7 x 3 x 7/16" BA</i>	<i>3 1/2 x 3 x 3/8"</i>	<i>Open</i>
Spacing of stiffeners, and if bracketed	<i>24"</i> <i>Bld</i>	<i>24"</i> <i>Bld</i>	<i>30"</i> <i>no</i>	
Height of sills of openings above deck	<i>15"</i>	<i>15"</i>		

Particulars of weather deck hatchways.

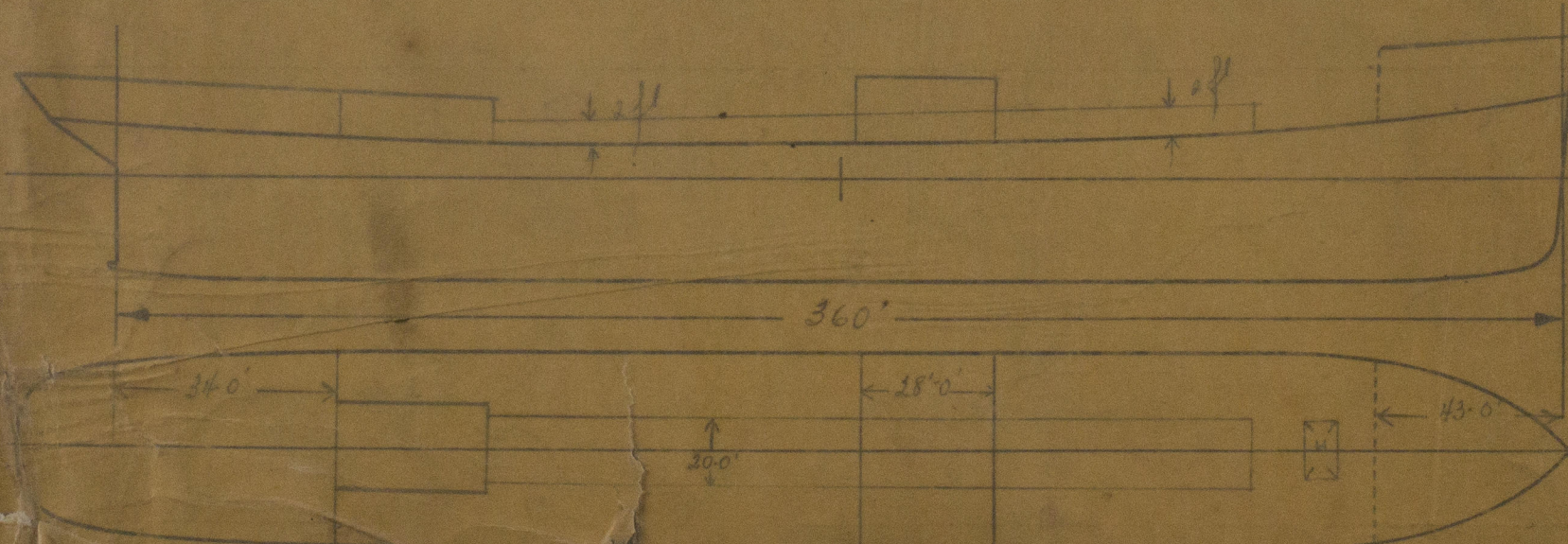
(In case of complete superstructure vessels having tonnage openings, give, in addition, particulars of 2nd deck hatchways, and also of those in bridge spaces closed by Class 2 appliances, or in open bridges).

Position and Name	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.	Ship.	Rule.
Height above top of DECK	<i>27</i>									
Thickness	<i>44</i>									
Material										
Number										
Material										
State of Thickness										
Remarks										

\* The depth of Fore and Afters should be stated from the underside of the hatches in all cases.

Are Rules 12, 13, 14, 15, 16, 17, 18 complied with as far as practicable? *Yes*  
Are hatchway coamings stiffened in accordance with Rule 9? *Yes*  
Length of bulwarks in wells—forward: \_\_\_\_\_ feet; aft: \_\_\_\_\_ feet.  
Area of freeing ports required by regulations (Rules 30 and 100) forward: \_\_\_\_\_ sq. ft.; aft: \_\_\_\_\_ sq. ft.  
No. Ft. x Ft.  
Particulars of freeing ports fitted { forward } \_\_\_\_\_ sq. ft.  
on each side of vessel { well } \_\_\_\_\_ sq. ft.  
{ after } \_\_\_\_\_ sq. ft.  
{ well } \_\_\_\_\_ sq. ft.  
Are Rules 23 and 24 complied with as far as practicable? *Yes*  
Are air pipes to tanks in accordance with Rule 25? *Yes*  
Are all scuppers and sanitary discharge pipes in accordance with Rule 27? *Yes*  
In oil tankers, what is the extent of the fore and aft gangway? *all fore and aft*  
Is the gangway strong and efficiently braced fore and aft? *Yes*  
Are the crew berthed in the forecastle? (Rule 96) *Yes*  
State spacing of supports *7 ft 6 in*  
In oil tankers, are the bulwarks open for at least half the length of the exposed portion of the weather deck? (Rule 100)  
Are Rules Nos. 95, 97, 98 and 99 complied with as far as practicable? *Yes*

If the vessel has a complete superstructure deck with a tonnage opening, is the latter fitted with efficient temporary covers?



Indicate thickness and extent of deck covering, and extent of erections, with dimensions, showing overhang (if any).  
Indicate position of scuppers from tonnage-exempted spaces above freeboard deck.

Sister vessels:

Fee:

Expenses (if any):